



好天线 · 优比造

东莞市优比电子有限公司

Dongguan UB Electronics Co., Ltd

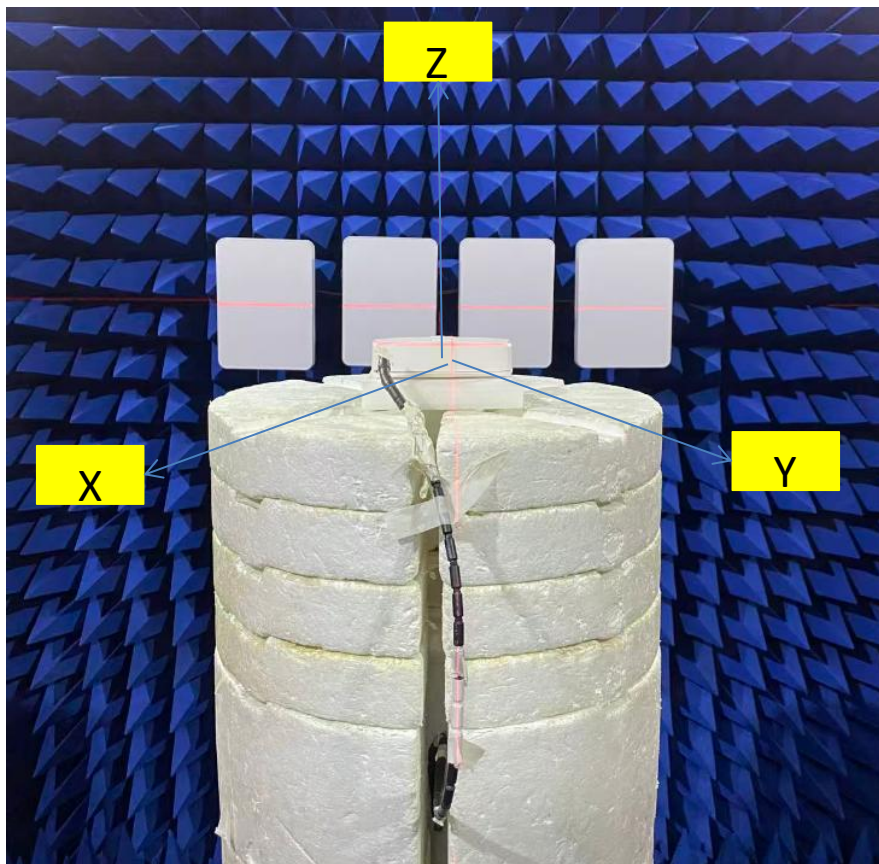
Antenna Study

- **Client Name: EFENTOSP.ZO.O.**
- **Project Name: HC7NB-IoTSensor**
- **Model: HC7**
- **Debugging frequency band: 2400-2500HMz**
- **Valuation date: 2026.01.28**

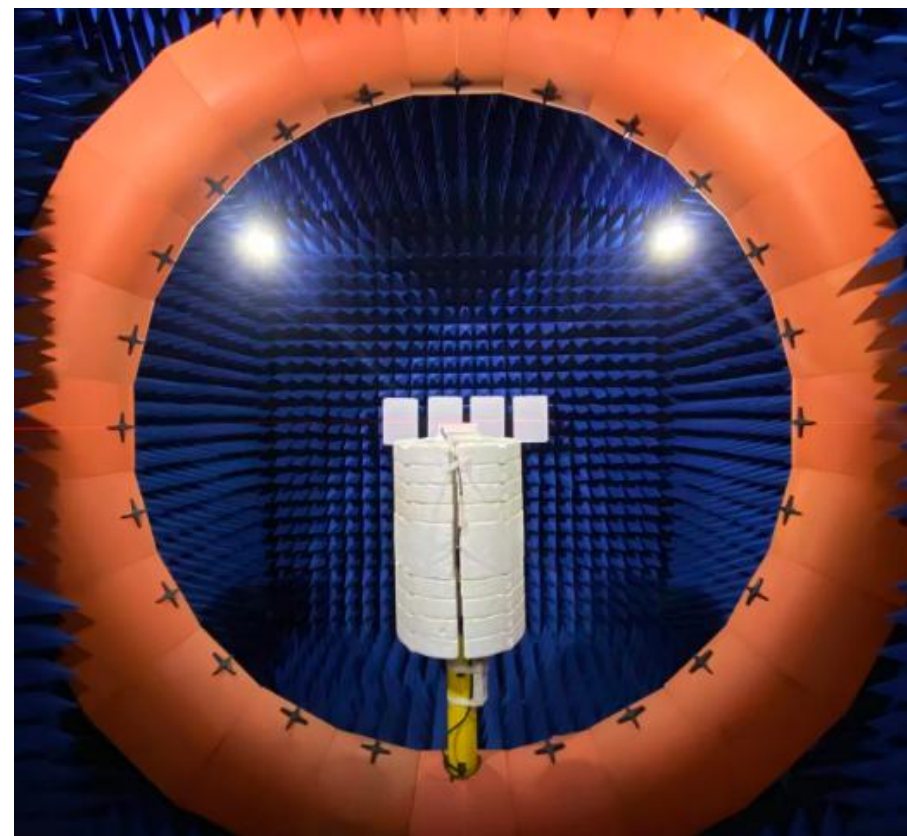
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Testing environment

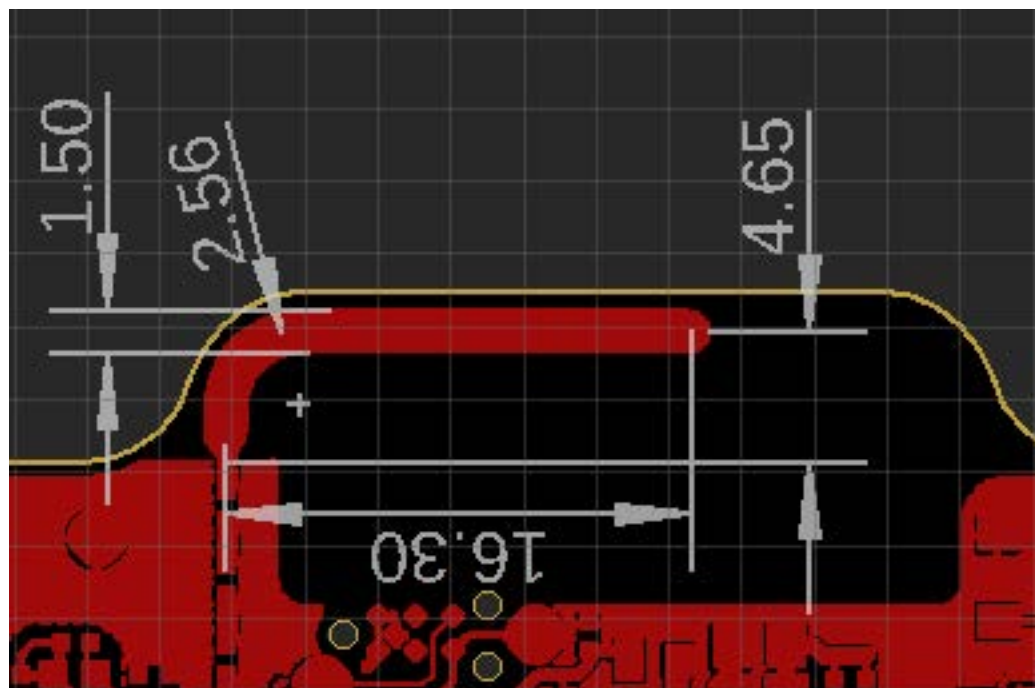


Testing 3D microwave darkroom(3m*3m*3m)



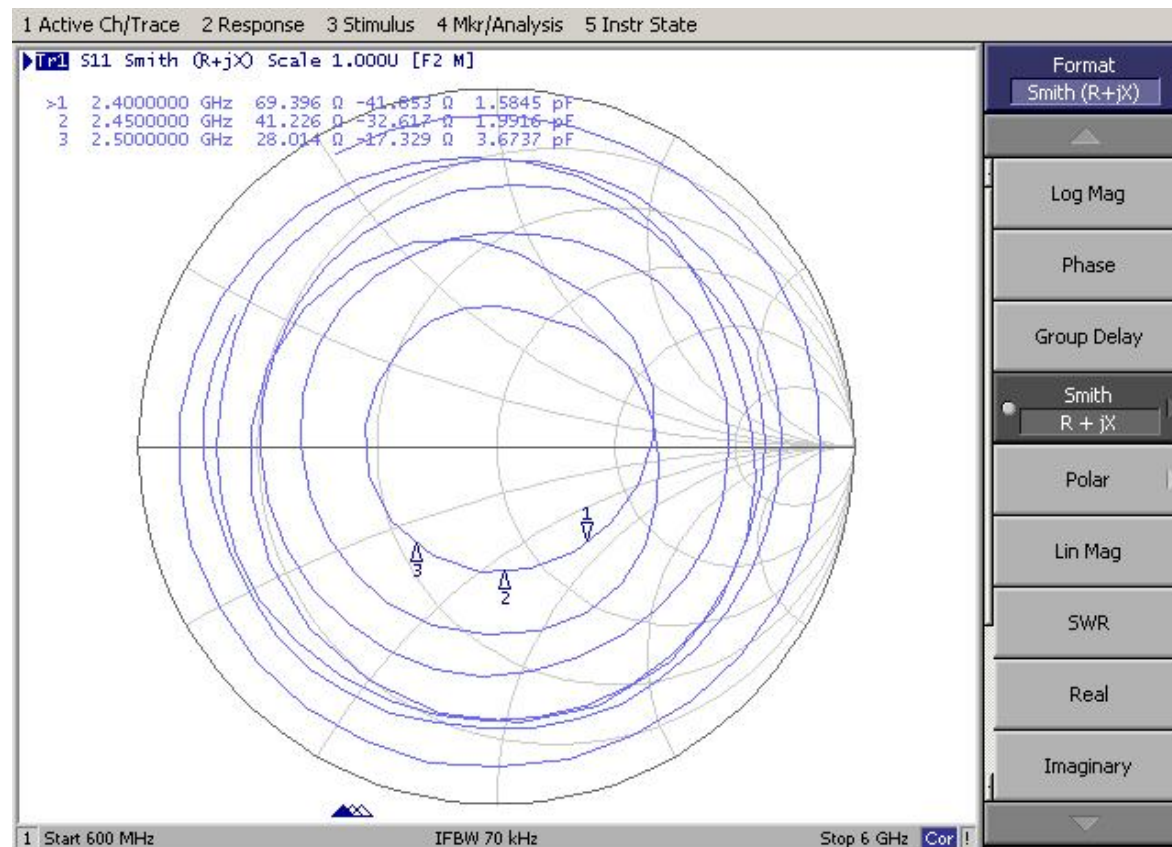
Antenna

- Antenna name: 2.4G
- Covers : 2400/2500MHz



S Parameter_Return Loss&VSWR-Smith

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Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	1.61	1.18	1.91	1.56	1.84	1.88	2.07	2.01	2.15	1.89	1.87
Efficiency (%)	57.19	52.57	60.79	55.35	59.04	58.63	61.04	60.68	63.40	61.50	62.82

